	Application No.	Applicant(s)
Notice of Allowability	10/700,016	TAYLOR, GEOFF W.
	Examiner	Art Unit
	Monica D. Harrison	2813
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. X This communication is responsive to <u>application filed 11/3/03</u> .		
2. The allowed claim(s) is/are <u>1-40</u> .		
3. The drawings filed on <u>03 November 2003</u> are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	E T Nation of Information	etent Application (PTO 150)
1. Notice of References Cited (PTO-892)	-	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No./Mail Dat 	e
3. Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 18 CCT. 04	08), 7. 🗌 Examiner's Amendn	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9. 🔲 Other	
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DETAILED ACTION

Allowable Subject Matter

1. Claims 1-40 are allowed over the prior art of record.

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance: The primary reason for allowance of the claims is that the prior art neither teaches nor fairly suggest a transistor device comprising a series of layers formed on a substrate, said layers including a first set of one or more layers each comprising n-type dopant material, a second set of layers forming a p- type modulation doped quantum well structure, and a third set of one or more layers each comprising n-type dopant material, wherein said first set of layers includes an n-type ohmic contact layer in claims 1-20 and in the context of the recited device.

The primary reason for allowance of the claims is that the prior art neither teaches nor fairly suggest a method of fabricating a transistor device providing a series of layers formed on a substrate, said layers including a first set of one or more layers each comprising n-type dopant material, a second set of layers forming a p-type modulation doped quantum well structure, and a third set of one or more layers each comprising n-type dopant material, wherein said first set of layers includes an n-type ohmic contact layer in claims 21-40 and in the context of the recited process.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

3. McLevige et al (4,573,064) discloses bipolar transistors and other electronic structures fabricated on Gallium Arsenide (GaAs) substrate to form an integrated circuit devices, however, McLevige et al does not teach the specified limitations of independent claims 1 and 21.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monica D. Harrison whose telephone number is 571-272-1959.

The examiner can normally be reached on M-F 7:00am-3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr. can be reached on 571-272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Monica D. Harrison AU 2813

mdh April 5, 2005 CRAIG A. THOMPSON'
PRIMARY EXAMINER

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